

# Work Order ID 95758

January-18-13 10:25:53 AM

**\*95758\***

Page 1

Item ID: D3015-3 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Locknut  
 Start Date: 1/16/13 Start Qty: 50.00 **100**  
 Required Date: 1/31/13 Req'd Qty: 50.00 **\*50\***  
 Reference: **\*50\*** Cust Item ID:  
 Customer:

Approvals: Process Plan: ML3 Date: 13-01-21 Tooling: Date: Run Start **\*NR1\***  
 QC: Date: SPC (Y/N): Date: Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3015	Rev C								
100		0.00							
<b>*100*</b>	PURCHASING								
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>18878</u>								
	Description: SS locknut with nylon insert								
	Possible Supplier: Acklands P/N: PFS LNNC516S1								
	Material release note required								
110		0.00							
<b>*110*</b>	Receive & Inspect for Damage & Mat'l Certs								
Packaging	Memo	0.00							
Packaging	Ensure Material Release Note is attached								
120		0.00							
<b>*120*</b>	QC6- Inspect dimensions to drawing								
QC	Memo	0.00							
Quality Control									

CA 13/01/21 100

100x 13-01-28

13-1-28

100

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions  <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other _____ _____ _____ _____
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**Work Order ID 95758****\*95758\***

Page 2

January-18-13 10:25:53 AM

Item ID: D3015-3

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Locknut

Start Date: 1/16/13

Start Qty: 50.00

**\*50\***

Cust Item ID:

Required Date: 1/31/13

Req'd Qty: 50.00

**\*50\***

Customer:

Reference:

Approvals:

Process Plan: \_\_\_\_\_

Date: \_\_\_\_\_

Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_

Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130

Identify as per dwg & Stock Location: 023

0.00

**\*130\***

Packaging

Memo

0.00

Packaging

1/23/13 (100)

140

QC21- Final Inspection - Work Order Release

0.00

**\*140\***

QC

Memo

0.00

Quality Control

1/31/13 df1/13-01-29

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
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Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

**FAULT CATEGORY**

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

# Picklist Print

January-18-13 10:25:53 AM

Page 1

Work Order ID: 95758

Parent Item: D3015-3

Parent Item Name: Locknut

Start Date: 1/16/13

Required Date: 1/31/13

Start Qty: 50.00

Required Qty: 50.00

Comments: IPP: A01.06.28New IssueSM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
PFS-LNNC5/16S1 Lock Nut		Purchased	No			110	Each	0.0000	1	50 100 100		8-13-01-28	

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

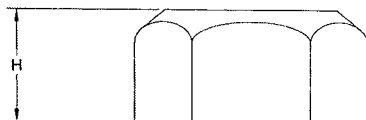
Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

# SPECIFICATION CONTROL DRAWING



**D3015-X LOCKNUT**

PART NUMBER	SIZE	HEIGHT H	POSSIBLE SUPPLIER
D3015-1	1/4-20 UNC	0.31	ACKLANDS, P/N PFSLNNC14S1
D3015-3	5/16-18 UNC	0.34	ACKLANDS, P/N PFSLNNC516S1
D3015-5	7/16-14 UNC	0.46	ACKLANDS, P/N PFSLNNC716S1
D3015-7	M5	0.19	ACKLANDS, P/N FLMN021-005-0000

△ C

**NOTES:**

- 1) MATERIAL: SS LOCKNUT WITH NYLON INSERT
- 2) FINISH: N/A
- 3) TOLERANCES: ALL DIMENSIONS SHOWN AS REFERENCE
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: N/A

95758 MLC5

13-01-21

**RELEASED**  
09/07/08

C	REFORMAT DWG. -7 P/N NOW FLMN021-005-0000 WAS LNNM5S1 (ZN B8-1), PAR 09-020	CP	09.07.08
B	ADD D3015-7	KJ	03.07.15
A	NEW ISSUE	DS	01.05.03
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.08		

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D3015**

TITLE **LOCKNUT**

REV. C

SHEET 1 OF 1

SCALE

NTS

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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO18878**

Purchase Order Date 1/21/13

PO Print Date 1/21/13

Page Number 1 of 2

**Order From :**

VC-ACK001

ACKLANDS - GRAINGER INC.  
P.O. BOX 2970  
WINNIPEG, MB R3C 4B5  
CA

**Contact Name**

**Buyer**

Chantal Lavoie

**Vendor Phone**

613 632 2739

**Requisition Nbr**

**Vendor Fax**

613 632 5386

**Tax Resale Nbr**

10127-2607

**Vendor Account Nbr**

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Ship To :**

DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAKED**  
C6130121

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1		RDC73-264 ACETON	1/25/13 Yes	8.00 Each	Yours ppd	\$27.1600	\$217.28
<b>Deliver To: FINISHING</b>							
2	PFS-LNNC516S1	Lock Nut	1/25/13 Yes	100.00 Each	Yours ppd	\$0.1200	\$12.00
<b>Deliver To: DANP</b>							
3		ATG99980 17' DUS PANI	1/25/13 Yes	3.00 Each	Yours ppd	\$33.6300	\$100.89
4		FLT1361 TRACK BROOM	1/25/13 Yes	3.00 Each	Yours ppd	\$56.3500	\$169.05

CERTIFICATE OF CONFORMITY  
REQ'D UPON DELIVERY

Special Instructions:  
AS PER DWG D3015 REV. C  
B95758  
ACKLAND P/N: PFS LNNC516S1

28.963

47.539

6013-0128

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required - YES NO

Change Nbr: 3

Change Date: 1/21/13





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO18878**

Purchase Order Date 1/21/13

PO Print Date 1/21/13

Page Number 2 of 2

**Order From :**

VC-ACK001

ACKLANDS - GRAINGER INC.  
P.O. BOX 2970  
WINNIPEG, MB R3C 4B5  
CA

**Contact Name**

**Buyer**

Chantal Lavoie

**Vendor Phone**

613 632 2739

**Requisition Nbr**

**Vendor Fax**

613 632 5386

**Tax Resale Nbr**

10127-2607

**Vendor Account Nbr**

**Terms**

Net 30

**Currency**

CAD

**FOB**

Destination-Collect

**Deliver To:** DANP

**PO Total:**

**\$499.22**

**Change Nbr:**

3

**Change Date:** 1/21/13

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required - YES NO

TRANSMISSION VERIFICATION REPORT

TIME : 01/09/2008 03:10  
NAME :  
FAX :  
TEL :  
SER.# : F9N212739

DATE, TIME	01/09 03:09
FAX NO./NAME	6136325386
DURATION	00:00:31
PAGE(S)	02
RESULT	OK
MODE	STANDARD

## Corn Brooms

### NEW

#### WAREHOUSE CORN BROOM

Bound with polyester stitching and heavy-duty galvanized wire band to provide added durability and longer life. Applications best suited includes snow removal, warehouses, garages, and any other rugged sweeping.



MARINO

Description	Shpg. Wt. (lbs.)	Item	Each
Heavy-Duty Warehouse	1.5	MNOCB107C	\$24.60

## Track Brooms

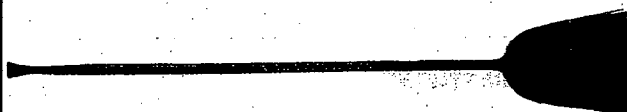
### TRACK BROOMS

Metal components are galvanized to prevent rusting. Large diameter pliable filaments provide good flicking action to remove packed snow and ice and resist breakage in cold weather.

- Patented triple staple construction.
- Fits all Railway Holders.

Overall Length (in.)	Width (in.)	Trim Length (in.)	Chisel	Shpg. Wt. (lbs.)	Item	Each
54	9	8½	N/A	0.8	FLT1361	\$56.35
57	9	8½	Steel	1.0	FLT1367CNR	\$40.19
59	9	10½	Steel	1.0	FLT1368CNR	\$42.56

FELTON  
Made in Canada



### NEW

#### TRACK BROOM

Heavy-duty construction with fully closed metal cap and chisel end. 8" long, extra coarse synthetic fibre is oil and solvent resistant. Chisel point can be used for removing packed ice and snow from outdoor surfaces and railway switches.

atlas  
graham

Description	Shpg. Wt. (lbs.)	Item	Each
Track Broom with Chisel End	1.0	ATG78408	\$77.58

**Save money with free  
online shipping!**

Place your order online and receive  
free shipping on all orders.

## Corn Brooms

### TOUGH GUY™ CORN BROOM

Corn Fiber blend intense use broom has no-wire construction.

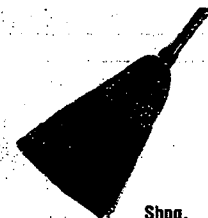


TOUGH  
GUY

Description	Shpg. Wt. (lbs.)	Item	Each
Medium-Duty Warehouse	1.5	GGJ1VAC1	\$14.12

### CORN BROOMS

Choose from a variety of corn brooms available from light to heavy-duty sweeping tasks.



atlas  
graham

Application	Description	Shpg. Wt. (lbs.)	Item	Each
Light-Duty	Mink Lobby Corn Broom (Use with Lobby Dust Pan)	0.6	ATG760	\$8.76
Light-Duty	Otter Household Corn Broom	1.5	ATG765	\$14.18
Medium-Duty	The Fox Corn Broom	1.8	ATG764	\$17.27
Medium-Duty	Coyote Warehouse Corn Broom	2.2	ATG763	\$17.31
Industrial	Husky Industrial Corn Broom with Cane Center	2.0	ATG761	\$22.12
Industrial	Wolf Industrial 100% All-Corn Broom	2.0	ATG762	\$22.94
Industrial Heavy-Duty	Cougar Industrial Heavy-Duty Corn Broom with Cane Center	2.4	ATG748	\$23.62

### TOUGH GUY™ NATURAL FIBER BROOM

100% corn fiber use for everyday sweeping of fine dirt and debris on most surfaces.



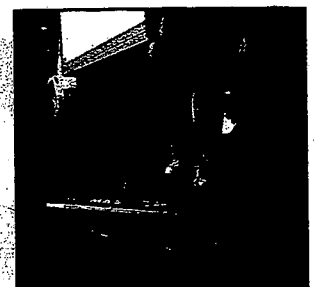
TOUGH  
GUY

Description	Shpg. Wt. (lbs.)	Item	Each
Heavy-Duty Warehouse, 56"	1.5	GGJ1VAB5	\$23.37

## Magnetic Brooms

### MAGSWEEP

For big jobs inside or outside, the handy MagSweep has a powerful magnet that sweeps a 24" wide swath. A simple pull on the waist level handle dumps the payload. Large wheels for easy rolling.



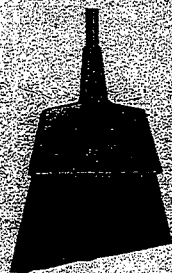
BESSEY

Description	Shpg. Wt. (lbs.)	Item	Each
24" MagSweep	45.0	JMSMSP24	\$766.57

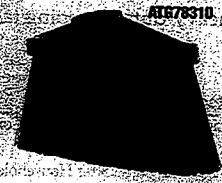
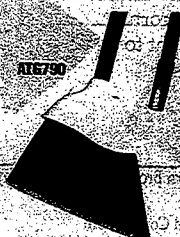
## Upright Brooms

### TOUGH GUY™ SYNTHETIC BROOM

Angled trim reaches under low cabinets and into other hard to reach places. Durable flagged fill.



Description	Shpg. Wt. (lbs.)	Item	Each
Angle Synthetic Fill 56"	1.5	GGHVC5	\$11.81

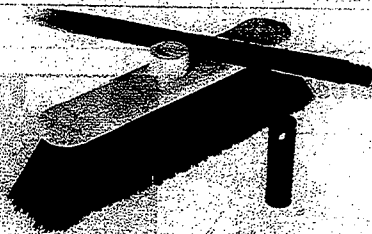


### RITE-ANGLE BROOMS

Use Rite-Angle brooms to sweep entrances, stairways, lobbies, under counters and around furniture.



Description	Shpg. Wt. (lbs.)	Item	Each
Fine Dual Angle Pro Broom with 48" Handle	1.4	ATG78310	\$16.13
Medium Dual Angle Pro Broom with 48" Handle	1.4	ATG78410	\$16.13
Large Rite-Angle Broom with 48" Handle	1.4	ATG797	\$19.13
Small Rite-Angle Broom with 48" Handle	1.1	ATG792	\$12.47
28" Short-Handled Lobby Broom (Use with Lobby Dust Pan or Litter Sweep)	0.9	ATG790	\$12.11
Warehouse Stiff Broom Head Only, For Use with 48" Threaded Handle	0.9	ATG771	\$32.56
Trailblazer Flagged Broom Head Only, For Use with 48" Threaded Handle	0.9	ATG772	\$32.56



### MAGNETIC UPRIGHT BROOMS

- For small area sweeping of fine dust and debris.
- Soft flagged bristles pick up fine dust and dirt from smooth floors.



Description	Shpg. Wt. (lbs.)	Item	Each
Economy Magnetic Upright Broom with 48" Handle	1.0	ATG795	\$11.04
Sweep EZY Pro-Size Magnetic Broom with 48" Handle	1.3	ATG796	\$16.24
Sweep EZY Pro-Size Broom Head Only	0.7	ATG784	\$13.46

## Upright Brooms

ATG78506



ATG78509



### NEW

#### PET UPRIGHT BROOMS

Dual angle upright broom fine sweep - the professional grade dual angle upright has two holes for multi-use sweeping. Use the centre hole for a vertically straight, upright sweeping. The offset hole pitches the handle 15° from center allowing the user to reach underneath equipment without bending over. The broom head and fibre are made from recycled PET plastic which resists moisture and chemicals.



Description	Shpg. Wt. (lbs.)	Item	Each
PET Broom, Small - Head Only	0.5	ATG78506	\$7.69
PET Broom, Small c/w 48" Metal Handle	1.4	ATG78507	\$11.79
PET Broom, Large - Head Only	0.5	ATG78509	\$12.57
PET Broom, Large c/w 48" Metal Handle	1.4	ATG78510	\$16.74

## Specialty Cleaning Brushes

ATG17522



ATG7509



### WHISK BROOMS



Description	Shpg. Wt. (lbs.)	Item	Each
Corn Whisk	0.3	ATG17522	\$7.34
Plastic Whisk	0.3	ATG7509	\$7.66

## Broom Accessories

ATG2533



ATG99980



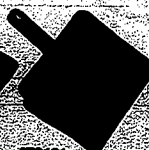
ATG185



ATG180



ATG181



ATG10182



### ACCESSORIES



Description	Shpg. Wt. (lbs.)	Item	Each
Broom Brace For Use with Push Brooms 24" and Over	0.5	ATG2533	\$6.16
12" Heavy-Duty Metal Dust Pan	1.1	ATG180	\$11.97
12" Heavy-Duty Polypropylene Dust Pan	1.0	ATG181	\$9.22
17" Heavy-Duty Aluminum Dust Pan	1.5	ATG99980	\$33.63
Lobby Dust Pan with 4" x 11" Opening	1.0	ATG10182	\$29.88
Litter Sweep with Sturdy Steel Frame, Large Bag Capacity	2.0	ATG185	\$82.28
Replacement Bag for Litter Sweep	0.5	ATG190	\$28.42

**PAINT & FINISHING**

Revised: 03.05.07

Description	Part Number	Unit	Min. Order	Vendor	Price
	Terry cloths	2	10	dollarama	1
	Paint Strainers				
1" 3M green masking tape	#26334	6	48	Bertrand	2.25/r(48pcs)
2" 3M green masking tape	MMM26340		12	Bertrand	\$ 9.75
2" masking tape general purpose	107-48 (stores)	3	12 rolls	acklands	2.65/roll
2" two way tape (carpet tape)	(stores)	3	9	homehardware	
36" Bonar masking 1500'roll	masking paper blue	1/4 roll	1 roll	Bertrand	44.99/roll
3M 8511 mask	SE261	2 bxs	8bxs of 10	Tenaquip	22.533/box 10
3M scotch tape pads (red)	(stores)			Haskins	
acid brushe	BP901	1/2 bx	2bx of 144	Acklands	0.32
Acetone	RDC13-264		4	Acklands	27.16
Alodine 12005		5 L can	1	Henkle	
Alum mixing sticks (wood=\$0)	DUPM7			Bertrand	1.60
Butcher cord(for crosstubes-paint)	1931T47	4		McMaster	8.51/roll
SPONGES 3-1/2 X 6	7309T1	4	24	McMaster	4.25
MOLYKOTE O-RING LUBE	1325K54	1	1	McMaster	24.97
Epoxy Primer Thinner	4500-S-23	1 gal	4 gal	Tempo	14.00/gal
fine nylon paint filters	6000-250D	box 250	1 box	Bertrand	30.00/box
Imron activator	DUPVG6005-QT	1 pt	3 pts	Bertrand / UAP	50.05
DUP68083-USG					
Imron -Dupont white paint	DUP333M24861-0.8G	1 gal	2 gal	Bertrand / UAP	80.5
Latex MultiPurose Gloves- Large	ANL208-9	pair	5	Acklands	\$ 1.78
heavy duty rust & corrosion	7973T11			Mc Master	603 THICKSTER GLOVE
LongArm HeavyDuty Pvc Gloves	SUG F294SL	pair	2	Acklands	\$ 23.72
Meguiar clenr cmpnd#1	M0116	1/4 L	1 litre	Bertrand / UAP	12.95/L / 11.07/L
Meguiar polish cmpnd#3	GEN M0316	1/4 L	1 litre	Bertrand / UAP	12.95/L / 10.94/L
Mixing pots	PBE5356	12 pots	50	Bertrand	1.05\$
Oakite Deoxidizer LNC		208L Drum	1 drum	Chemtall Oakite	\$ 1,678.56
paint filters 20x25	FIL2025SSP		20	Bertrand	4.10\$
paint filters 20x48	FIL2048SSP		20	Bertrand	7.95\$

ECRM 70M

**ACKLANDS  
GRAINGER.**

ACKLANDS - GRAINGER INC.  
765 CAMERON ST.  
HAWKESBURY ON K6A 2B7  
(613) 632-2739

ACKLANDS - GRAINGER INC.  
PO BOX 2970

WINNIPEG MB R3C 4B5

DART AEROSPACE LTD  
1270 ABERDEEN ST  
HAWKESBURY ON  
K6A 1K7

PACKING SLIP ONLY  
INVOICE TO FOLLOW

PACKING SLIP#  
1417 0423457

2

PAGE  
PAGE NO  
2 of 2

NO. DU CLIENT CUST. NO. 172628  
1726280

NO DE REFERENCE DU CLIENT CUST. REF. NO.  
18878

NO. DE LICENSE PROVINCIALE P.S.T. LIC. NO.  
N/A - HST

NO. DU CONTRAT  
CONTRACT NO.

EXP. DIRECTE  
DIR. SHIP  
N

DATE DE LA COMMANDE  
ORDER DATE  
01/22/2013

DATE DE LA FACTURE  
INVOICE DATE  
01/25/2013

VENDEUR  
SALESPERSON  
M85

TERMES TERMS

\*\*\* NET 30 \*\*\*

NO. DE VERSEMENTS  
NO. OF PMTS.  
0

M.E.P.  
M.B.P.  
0

DATE DU PREMIER VERSEMENT  
FIRST PAYMENT DATE

00/00/0000 10:53

APP. DE CREDIT  
CREDIT AUTH

S'APPLIQUE AU NO. DE FACTURE  
APPLY TO INVOICE NO.

RC/  
B.O./SUB.

COPIES

T.P.S./G.T.

ORDRE DE COMMANDE  
ORDER NO.

CODE DU MAN.  
MFG CODE

NO. DE PIECE ITEM NO.

PRIX DE LISTE SUGG. LIST

DESCRIPTION

QUANTITE  
COMMANDEE  
QUANTITY  
ORDERED

QUANTITE  
EXPEDIEE  
QUANTITY  
SHIPPED

CODE  
DE  
COMMANDE  
DIFF.  
B.O. CODE

UNITE DE MESURE  
DE COMMANDE  
ORDER UNIT  
OF MEASURE

PRIX PRICE

PAR PER

ESC DIS

PRIX  
EXTENSIONNE  
EXTENDED  
PRICE

I.  
P.  
P.  
S.  
T.

FLT 1361

BROOM TRACK W/O CHISEL PLASTIC

61.90

3

3

EA

47.539

1

142.62

NYX

HST# 88970-1272/TVQ# 1019602903

PEDEUR SHIP VIA

RUSH CUSTOMER PICK

FACTORY  
SHIP

EXPEDITION  
SHIP

PORT PAYE  
PPD FREIGHT

DATE DE LIVRAISON REQUISE  
REQUESTED DELIVERY

CONNAISSANCE  
BILL OF LADING

SOUS TOTAL / SUB TOTAL

458.79

CODE DE COMMANDE DIFF. B.O. CODE

B - B.O. COMMANDE DIFF.  
C - ANNULEE CANCEL  
D - EXP. DIRECTE DIR. SHIP

9275  
9305

T.P.S./T.V.M.  
G.S.T./A.S.T.

TAXE PROV.  
PROV. TAX

59.64

0.00

518.43

MONTANT TOTAL TOTAL AMOUNT

COPIE DU CLIENT  
CUSTOMER COPY

FORM 7889-1